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APPLICATION NO.	PLICATION NO. FILING DATE FIRST NAMED INVE		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/832,541 04/11/2001		David A. Morgenstern	MTC 6638.7		
321	7590 04/02/2004		EXAMINER		
	R POWERS LEAVITT A	OH, TAYLOR V			
ONE METR	OPOLITAN SQUARE	ART UNIT	PAPER NUMBER		
ST LOUIS, MO 63102			1625		
			DATE MAILED: 04/02/2004	₄ /	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		A	Application No.		Applicant(s)				
			09/832,541 MORGENSTERN E		I ET AL.				
•	Office Action Summary	Ē	xaminer		Art Unit				
			aylor Victor Oh		1625				
Period fo	The MAILING DATE of this commu or Reply	nication appea	rs on the cover sh	eet with the co	orrespondence a	ddress			
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this cone period for reply specified above is less than thirty period for reply is specified above, the maximum re to reply within the set or extended period for repreply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(annunication. (30) days, a reply with statutory period will a style will, by statute, can	a). In no event, however, thin the statutory minimum apply and will expire SIX (to use the application to becomes.	may a reply be time n of thirty (30) days 6) MONTHS from to ome ABANDONED	ely filed will be considered time he mailing date of this of 0 (35 U.S.C. § 133).				
	Responsive to communication(s) fi	led on 14 Aug	ust 2003						
·									
· ·	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims	·							
5)□ 6)⊠ 7)□									
	on Papers		ioonon roquironion						
9) 10)	The specification is objected to by the drawing(s) filed on is/arc Applicant may not request that any objected Replacement drawing sheet(s) including the oath or declaration is objected	e: a) accept ection to the dra ng the correction	wing(s) be held in a is required if the dra	beyance. See awing(s) is obje	37 CFR 1.85(a). ected to. See 37 C				
Priority ι	ınder 35 U.S.C. §§ 119 and 120			•					
a)(Acknowledgment is made of a clair All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the Internation from	y documents he documents he documents he documents he documents he documents of the for a list of the first second anguage provision domestic per domestic per domestic per domestic per documents he do	ave been received ave been received documents have PCT Rule 17.2(a)), the certified copies priority under 35 U. sentence of the special scional application had	d. d in Application been received s not received S.C. § 119(e) ecification or in has been received	on No d in this National d.) (to a provisional in an Application elived. and/or 121 since	al application) Data Sheet. a specific			
Attachmen	t(s)								
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449)		5) 🔲 Notic	ce of Informal Pa	PTO-413) Paper No tent Application (PT				

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Final Rejection

The Status of Claims

Claims 1-101 are pending.

Claims 77-92 have been withdrawn from the consideration

Claims 1, 3-9, 11-52, 54-75, 93-95, and 97-101 have been rejected.

Claims 2, 10, 53, 76, and 96 have been objected.

Claims 102-168 have been canceled.

Election/ Restriction

Due to applicants' convincing arguments, the Examiner has rejoined Group I and Group II.

Claim Rejections - 35 USC § 112

The rejection of claims 1 and 93 has been maintained due to applicants' failure to modify in the amendment.

Claims 11, 17-18, 30-31, 34, 46-47, 54, 74-75, and 100-101 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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are vague and indefinite. However, those phrases are without further clarification by

Phrases "or a salt thereof " and "combinations thereof " have used in the claims. These

the specification. Therefore, an appropriate correction is required.

Claim Rejections - 35 USC 103

1. Applicants' argument filed 8/14/2003 have been fully considered but are not

persuasive.

The rejection of Claims 1, 3-9, 11-52, 54-75, 93-95, and 97-101 are rejected

under 35 U.S.C. 103(a) as being unpatentable over Siebenhaar et al (WO 00/32310) in

view of Franczyk et al (U.S. 5,739,390)

The rejection of Claims 1, 3-9, 11-52, 54-75, 93-95, and 97-101 are rejected under 35

U.S.C. 103(a) as being unpatentable over Siebenhaar et al. (WO 00/32310) in view of

Franczyk et al (U.S. 5,739,390) has been maintained with the reasons of the record in

paper no. 9.

Claims 2, 10, 53, 76, and 96 are objected to as being dependent upon a rejected

base claim, but would be allowable if rewritten in independent form including all of the

limitations of the base claim and any intervening claims.

In Response to Argument

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2. The applicants argue the following issues:

- 1. the Siebenhaar et al does not describe the mechanical strength of the Raney copper catalyst or a support structure resistant to deformation under the conditions of the dehydrogenation reaction and also has failed to suggest the loss of catalyst activity due to catalyst agglomeration or the softness of copper;
- 2. the Franczyk et al does not describe the mechanical strength and physical durability of the copper containing catalyst or the doped Raney copper catalyst resistant to deformation under the conditions of the dehydrogenation reaction;
- 3. the Siebenhaar et al does not describe the use of a catalyst having a support structure comprising at least 10 % by weight of a non-copper metal;
- 4. the Franczyk et al does not describe any suggestion of adding metals to the catalyst in an amount sufficient to enhance the mechanical durablilty of the catalyst structure;
- 5. None of the references have described the use of a metal sponge support comprising at least 60 % by weight of a non-copper metal and 2 % to 30% by weight copper.

The applicants' argument have been noted, but these arguments are not persuasive.

First, with regard to the applicants' arguments, the Examiner has noted applicants' argument. However, Siebenhaar et al does teach the preparation of aminocarboxylic acid salts by oxidizing amine-group-containing primary alcohols, such

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as diethanolamine, triethnaolamine (see page 7 ,lines 6-7) with an alkaline medium in the presence of a modified Raney copper catalyst in a quantity of 0.1 to 30 % by weight (see from page 4 ,line 28 to page 5, line 6), along with a promoting agent selected from boric acid, salts of fluorine complex anions, and etc. (see page 2 ,lines 2-3).

Furthermore, Franczyk et al expressly teaches the process to prepare amino carboxylic acid salts, such as the salts of glycine, iminodiacetic acid , N-methylglycine by contacting amino alcohols, such as monoethanolamine or diethanolamine (see col. 2 ,lines 44-57) with an alkali metal hydroxide in the presence of a copper catalyst containing alkali-resistant carriers (18 weight % copper and 82 % zirconium oxide) (see col. 8 ,lines 24-25). Furthermore, the process can be involved in phosphonomethylating the carboxylic acid salt to form N-(phosphonomethyl)iminodiacetic acid or a salt , which further can be converted to N-(phosphonomethyl)glycine or a salt (see col. 3 ,lines 3-5).

In addition, concerning the presence of the supporting structure, the reference is silent. However, the supporting structure is directly related to the optimization of the catalyst activity. Similarly, Siebenhaar et al does indicate that the catalyst activity can be increased by using the promoting agent in addition to the dehydrogenation catalyst (see page 1, line 20). Therefore, it would have been obvious to the skilled artisan in the art to have motivated to add the supporting to the catalyst in order to optimize the catalytic activity of the dehydrogenation catalyst. This is because the skilled artisan in the art would expect the addition of the supporting structure to the catalyst in the process to increase its catalytic activity as similarly successful as shown in the case of adding the promoting agent to the dehydrogenation catalyst in the reference.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. Victor Oh whose telephone number is (703) 305-0809. The examiner can normally be reached on 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman can be reached on (703) 308-4698. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4556 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

1235.

ALAN L. ROTMAN SUPERVISORY PATENT EXAMINER

allan L Rotman

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